

CLAIMS

1 1. A method for operating a radio reception system that includes a plurality of receivers
2 assigned to a common output device, in which one of the receivers is always designated as an
3 audio receiver and is tuned to a frequency of a radio transmitter and outputs a signal received from
4 the transmitter to the output device, and another of the receivers is designated as a search receiver,
5 said method comprising:

6 stepping the search receiver through its frequency band for a frequency signal value
7 associated with the same transmitter and determining a measure of the signal strength of said
8 frequency signal value;

9 comparing the signal strength of the signal received by the search receiver and the signal
10 strength of the signal received by the audio receiver;

11 tuning the audio receiver to said frequency signal value if the measure of the signal strength
12 of said frequency signal value is better than the measure of the signal strength associated with the
13 current signal received by the audio receiver; and

14 repeating said steps of stepping, comparing and tuning.

1 2. The method of claim 1, wherein said step of comparing includes computing the difference
2 between the field strengths, providing a difference signal value indicative thereof, and comparing
3 said difference signal value to a threshold value.

1 3. The method of claim 2, wherein said threshold value is a fixed threshold value.

2 command signals to said first receiver and to said audio processing unit.

1 10. The motor vehicle radio reception system of claim 9, wherein said audio processing unit
2 includes a microprocessor.

1 11. The motor vehicle radio reception system of claim 9, wherein said first receiver and said
2 second receiver each include their own uniquely associated antenna.

1 12. The motor vehicle radio reception system of claim 7, wherein said second receiver receives
2 an identification signal over said bus indicative of the transmitter.

1 13. The motor vehicle radio reception system of claim 7, wherein said bus comprises a MOST
2 bus.

1 14. The motor vehicle radio reception system of claim 12, wherein said first receiver transmits
2 said identification signal onto said bus.